



# **2019 ANNUAL REPORT**

Intercultural Center for the Study of Deserts and Oceans  
Dra. Nélide Barajas Acosta





**CEDO Intercultural**

*Thriving Coastal Communities, Sustainable Livelihoods,  
Healthy Ecosystems*



**Executive Directors 2019**

Peggy J. Turk Boyer, January to June  
Nélida Barajas Acosta, July to December



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- **Environmental Education**
- **Research and Monitoring**
  - Fisheries
  - Biodiversity & Conservation
  - Climate Change
- **Ecosystem and Fisheries Management**
  - Integrated Management Regional Program:
  - Upper Gulf of California Biosphere Reserve
  - Puerto Peñasco – Puerto Lobos Fisheries and Biological Corridor
- **Economic Solutions**
  - Academic Services and Naturarte
  - Fisheries Improvement & Fair Trade Certification
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# ENVIRONMENTAL EDUCATION

Fostering an Environmentally  
and Socially Responsible Culture



## Recovering Our Seas

**1 EDUCATIONAL  
CURRICULA**

**57 teachers,  
112 students,  
35 schools.**

**13 communities, 19 advisors**







# Capacity Building Workshops



**15** in  
**Education  
Area  
(Teachers)**



**5** at the **XXV  
World Scout  
Jamboree**





# 2019 International Coastal Cleanup

CEDO IS CELEBRATING 40 YEARS



PROTECTING THE SEA OF CORTEZ!

ON SATURDAY,  
OCTOBER 19TH  
@ 8:00am

JOIN CEDO  
FOR AN EPIC, LOCAL  
BEACH CLEAN-UP  
EFFORT!

For more info email  
info@cedo.org  
or call CEDO at:

011-52-638-382-0113



PICK A SITE:

Playa Tesoro  
Playa Hermosa  
Sandy Beach  
El Mirador  
El Malecón  
Estero La Choya  
Las Conchas



**Biodiversity  
Monitoring of 1.7 km,  
at Sandy Beach the  
sole certified beach  
in Sonora.**

**International Beach Cleaning  
(The Ocean Conservancy) +1000  
volunteers, surface 30 km.**

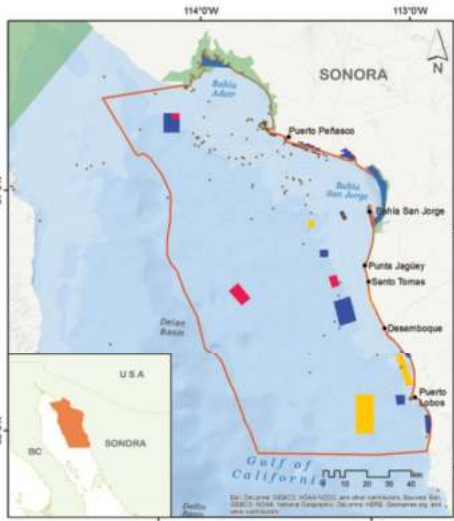




# RESEARCH AND MONITORING



# Fisheries



Baseline data  
taken in 643  
km<sup>2</sup> of

## 26 Refuges

for

## 11 Commercial Species



# Biodiversity and

# Conservation

# Least tern

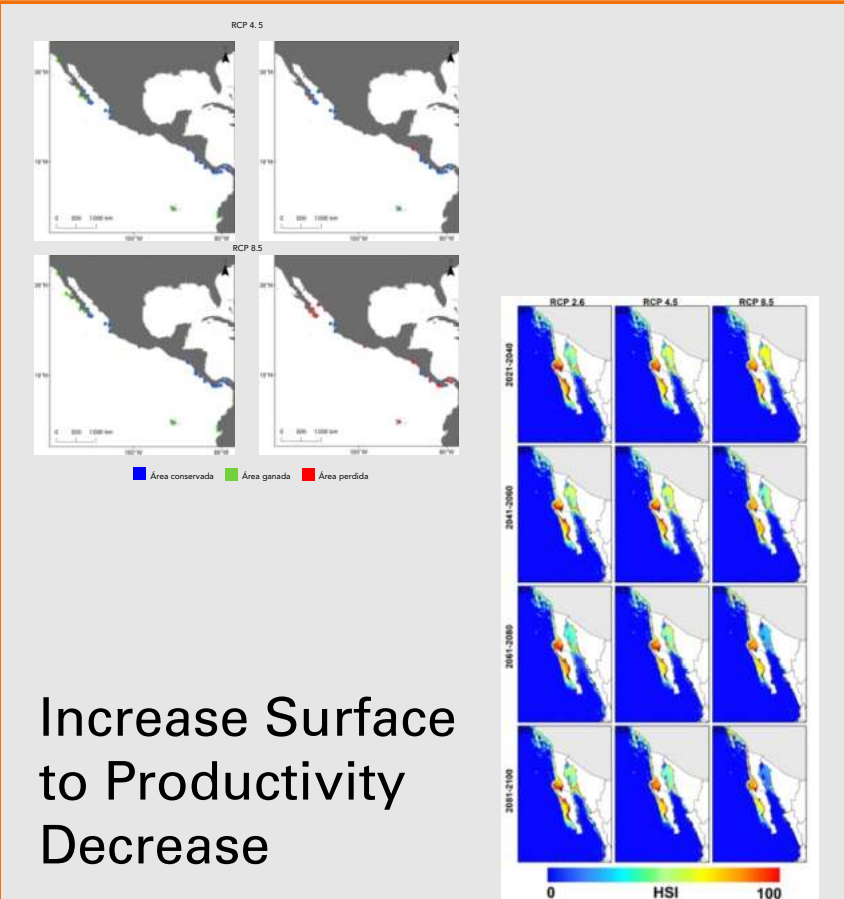
(*Sternula antillarum*)

**211 344 5**  
Nests Eggs Wetlands



**1,722**  
Sea Lions  
(*Zalophus Californianus*)  
at San Jorge  
Island

# Climate Change







# ECOSYSTEM AND FISHERIES MANAGEMENT

Ecosystem Approach to managing  
fisheries and the conservation of  
biological diversity



## RURAL DEVELOPMENT FOR GOOD LIVING

### INTEGRATED MANAGEMENT REGIONAL PROGRAM Upper Gulf of California Biosphere Reserve

#### Environmental Education

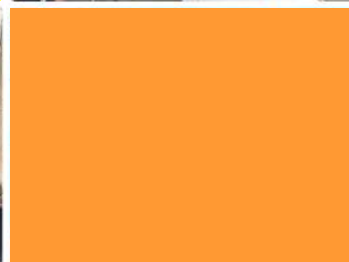
Tourist and Academic Services

#### Regional Development

Territorial zoning  
Productive diversification  
Socially just economy  
Community well-being

#### Research and Monitoring

Territorial and Cultural Dynamics  
Fisheries and Biodiversity  
Ecosystems and Climate Change







## Diagnosis of the Problems in the Upper Gulf of California and Colorado River Delta Biosphere Reserve

- ~Conservation and Monitoring
- ~Governance and Security
- ~Responsible Fishing
- ~Productive Diversification
- ~Rural Development
- ~Community Well-Being







**PUERTO PEÑASCO ~ PUERTO LOBOS** Fisheries & Biological Corridor

## 2019 CORRIDOR BOOKLET PUBLISHED

### A New Path Forward for Ecosystem & Fisheries Management in Mexico:

Coastal-Marine Spatial Planning and  
Integrated Fisheries Management in the  
Puerto Peñasco - Puerto Lobos Biological  
and Fisheries Corridor, Sonora



### Un Nuevo Rumbo hacia el Manejo Ecosistémico y Pesquero en México:

Planeación Espacial Marino-Costera  
y Manejo Integral del Corredor Biológico  
y Pesquero Puerto Peñasco -  
Puerto Lobos, Sonora

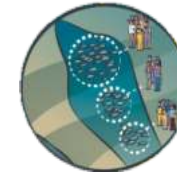


## INTEGRATED MANAGEMENT TOOLS

PROPOSED FOR  
SMALL-SCALE  
FISHING IN THE  
PUERTO PEÑASCO  
TO PUERTO LOBOS  
CORRIDOR,  
SONORA.



- 1 REGULARIZATION OF FISHING EFFORT
  - Compiled complete list of legal and unregistered boats, permits, and spatial and temporal pattern of fishing effort, including illegal and unreported catch volumes
  - Community Management Committees identified traditional local users
  - Facilitated a process for registration of boats
  - Proposed transparent, inclusive process for permitting unregulated fishing



- 2 LOCALLY MANAGED AREAS FOR RIGHTS BASED MANAGEMENT
  - Defined the Corridor as a Special Management Area for Responsible Fishing for six communities
  - Communities defined exclusive local areas for managing benthic species (blue crab, pink and black murex snail)



- 3 FISHERIES REFUGE ZONES (FRZ)
  - Reached agreement with 75% of fishermen in six communities for establishing a network of fisheries refuge zones in the Corridor.
  - Submitted formal proposal to CONAPESCA for 26 fisheries refuges covering a total of 64,301.5 hectares or 4.4% of the total area of the Corridor.
  - Proposed refuges enhance recruitment for 11 fisheries species (Table 3).
  - Proposed refuges offer protection for critical habitats: 15.6% of rocky reefs, 19.5% of wetlands, 66% of the zones where rhodoliths occur, 100% of mangroves; 4% of sandy habitat.



- 4 CATCH SHARES
  - Analyzed and shared data on management, catch volume and size distribution of nine species to prioritize setting quotas with INAPESCA
  - INAPESCA agreed to define locally managed fishing areas and catch limits for benthic species





**6 FISHING PERMITS  
ISSUED,  
DESEMBOQUE**



**3 VOLUNTARY  
ACTIONS**



**COMMITTEE OF  
RESPONSIBLE DIVERS  
FORMED, PUERTO LOBOS,  
H. CABORCA SON.**





**Morua ESTUARY** Users join Corridor management efforts

## San Jorge ISLAND



Developed Use Plan for Island



**Economic ALTERNATIVES**  
Ecotourism and Aquaculture Projects

**Puerto Lobos MANGROOVE** Caborca municipality joins in protection efforts



## Fisheries Improvement PROJECTS



Commitment of crab fishermen  
Participation in removal of ghost nets





# ECONOMIC SOLUTIONS

Academic Services and NaturArte





# Academic Services to 19 Mexican Institutions



UNIVERSIDAD AUTÓNOMA  
DE BAJA CALIFORNIA SUR  
"Sabiduría como meta. patria como destino"



CABET Cultura y  
Ambiente A.C.





# Academic Services to 10 **U.S.A. Institutions**







NaturArte  
ecotourism corridor



4

**SAN JORGE  
ISLAND  
JOURNEY**

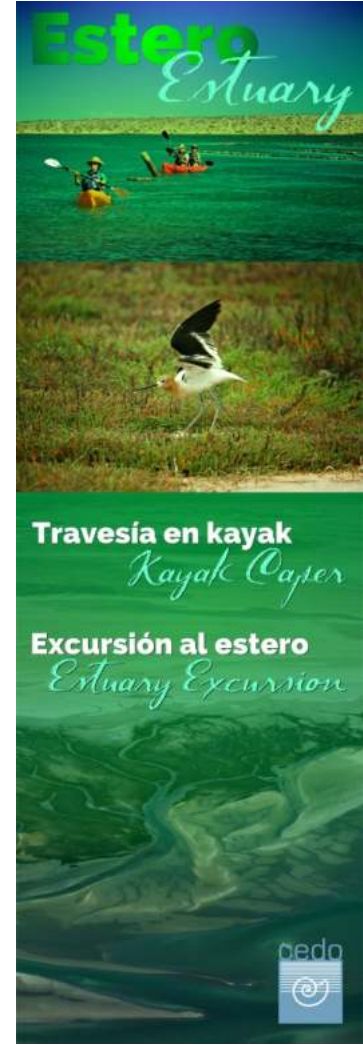


16

**TIDEPOOL  
EXPLORATION**

5

**KAYAK  
CAPER**

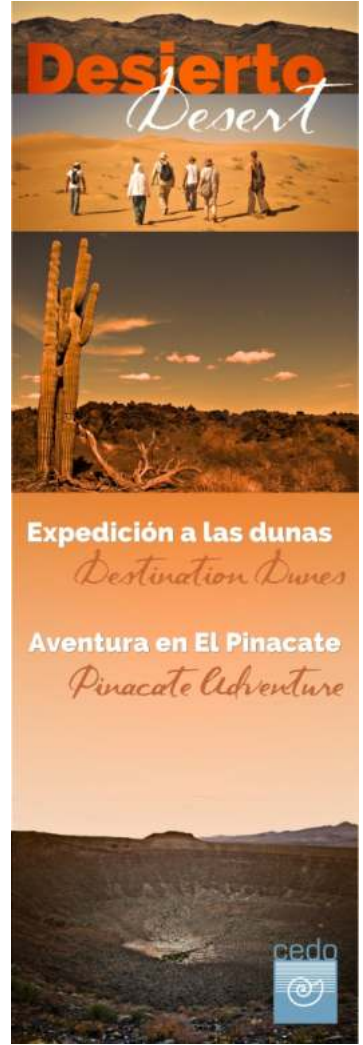


4

**ESTUARY  
EXCURSION**

6

**PINACATE  
ADVENTURE**







# ECONOMIC SOLUTIONS

FIP and FairTrade  
Certification



**MAR A MESA**  
collaboration initiated to bring  
crab to US markets

**FIP**  
formal registration of blue crab  
for sustainable improvements

**FAIR TRADE**  
collaboration initiated for  
Corridor & Upper Gulf products





# DEVELOPMENT AND COMMUNICATIONS

5







CEDO Program information events and activities (US)



7

Donor and partner recognition and development events

9

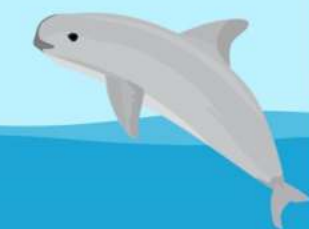
Fundraising activities









GreaterGood.org is proud to support the work of CEDO.

Congratulations on 40 years of conservation!




















# SOCIAL MEDIA IMPACT

 RED SOCIAL	 PERFIL O PÁGINA	 NÚMERO DE SEGUIDORES	 NÚMERO DE PUBLICACIONES	 INTERACCIÓN EN PUBLICACIONES
	 PÁGINA EN INGLÉS	3,187	175	165,473
	 PÁGINA EN ESPAÑOL	2,838	164	129,669
	CEDO Intercultural_Mex	243	86	662
	naturartebycedo	146	55	791





# GENERAL OPERATIONS

## Material Resources



## AUTOMOBILE STATUS

MARCA								
MODELO	EXPLORER	MERCURY	MITSUBISHI MOTORS	ESCAPE	MATRIX	FRONTIER	Econoline Wagon	PATHFINDER
AÑO	2007	2008	2010	2005	2007	2001	2001	2002

\* No funcionales

## BOATS



## PENASCO CAMPUS Improvements & Repairs





# Funding Sources



**G A Binney  
Conservation  
Foundation**



**STEVE LEUTHOLD  
FOUNDATION**



the David &  
Lucile **Packard**  
FOUNDATION





